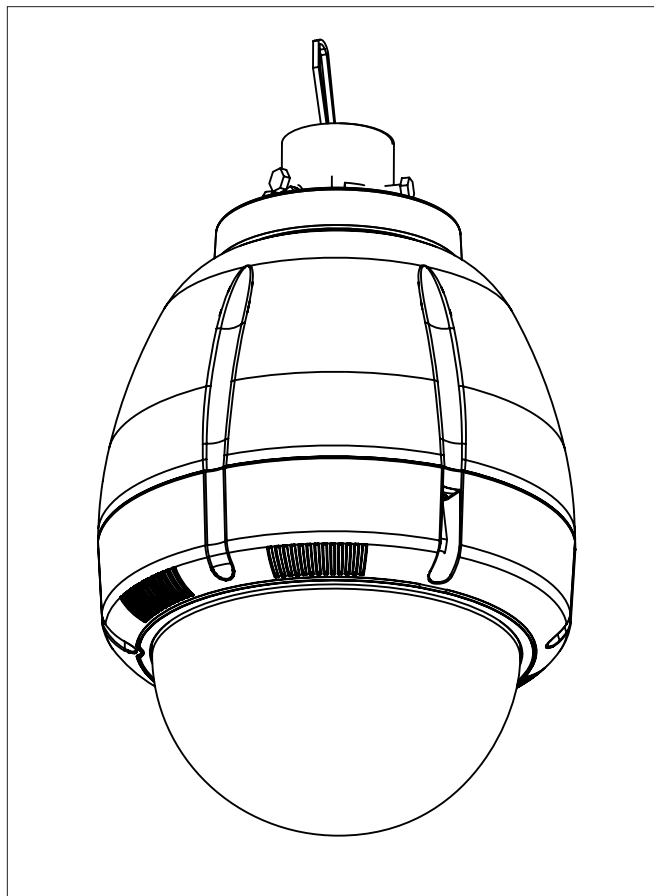


Product Instructions

25734



Before attempting to connect or operate this product,
please read these instructions completely.

81-IN6215
06/01/07

IMPORTANT SAFEGUARDS

1. **Read Instructions** - All the safety and operating instructions should be read before the unit is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the unit and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and user instructions should be followed.
5. **Electrical Connections** - Only a qualified electrician should make electrical connections.
6. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Cable Runs** - All cable runs must be within permissible distance.
8. **Mounting** - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit. Accordingly:
 - a. The installation should be made by a qualified installer.
 - b. The installation should be in compliance with local codes.
 - c. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit. Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

WARRANTY INFORMATION

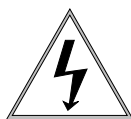
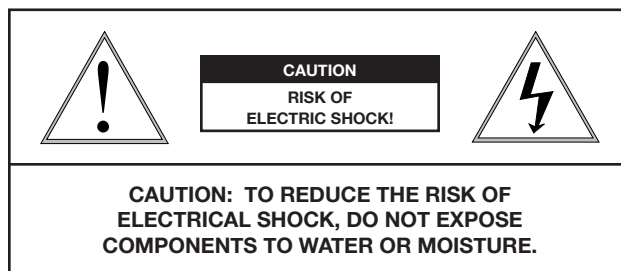
Videolarm, Incorporated warrants that products sold hereunder shall be fit for the ordinary purpose for which said products are intended and shall be free from defects in material and workmanship for a period of two years from date of sale to buyer. Videolarm makes no other warranty of any kind with respect to this product, whether expressed or implied, including, without limitation, the implied warranty of fitness for a particular purpose.

In the event of a breach of the above warranty, Videolarm shall, at its option, repair or replace said product. This is Videolarm's sole obligation under this warranty. In no event shall Videolarm be liable for any incidental or consequential damages, as defined in section 2-715 of the Uniform Commercial Code by a breach of this warranty.

Videolarm shall repair or replace defective products upon shipment of products prepaid to Videolarm, Inc., 2525 Park Central Blvd., Decatur, GA 30035.

Repairs made necessary by reason of accident, misuse or normal wear shall be charged at Videolarm's standard rate. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SAFETY PRECAUTIONS



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

1. The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.
2. These Installation and Operating Instructions.

SERVICE

If the unit ever needs repair service, the customer should contact Videolarm (1-800-554-1124) for authorization to return and shipping instructions.

TECHNICAL SUPPORT

If technical support is needed, Videolarm has set-up a 24 hour technical support line for their customers.

24 HOUR TECHNICAL SUPPORT

1-800-554-1124

ELECTRICAL SPECIFICATIONS (OUTDOOR ONLY):



Power 24VAC, Class 2 Only

52 watts at 24 VAC (accessories)

Heater: 50 watts

Blower: 2 watts



NOTE: This unit is designed for operation in an upright position. Installing the unit upside down may cause damage to the internal equipment, and will void the warranty.

GENERAL INSTRUCTIONS:

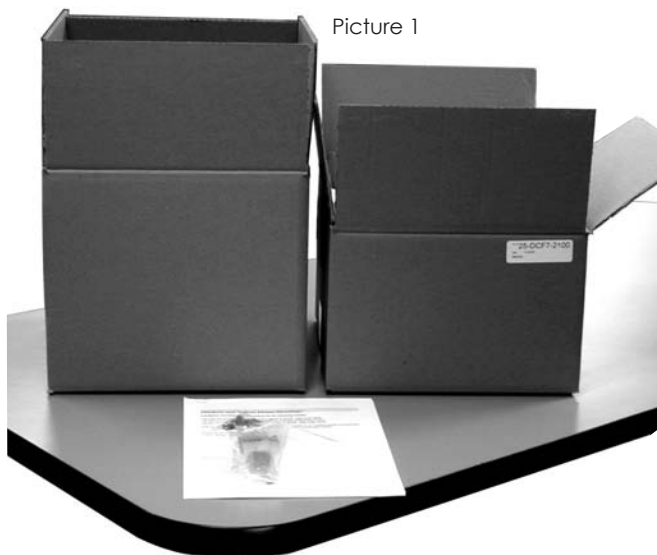
Tools Required: .100" Flat Head Screwdriver
Phillips Head Screwdriver



Be sure the bracket is properly and securely mounted to a supporting structure capable of rigidly holding the weight of the entire unit.

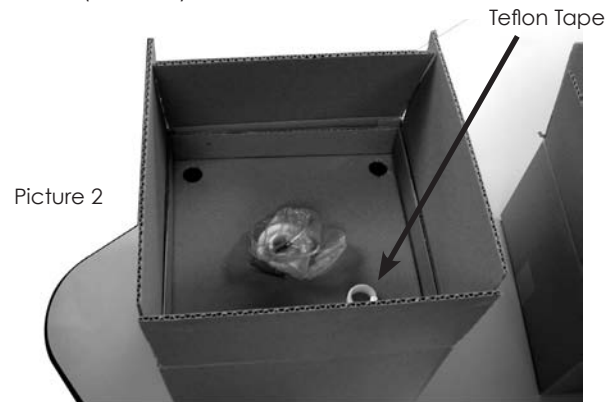
ASSEMBLING THE PRODUCT:

1. Remove the contents of the box onto a table. The larger subassembly box is the housing assembly. The smaller subassembly box is the dome assembly. (Picture 1)



Picture 1

2. Open the housing assembly box. Note there is a small roll of Teflon Tape that will be needed during installation, put it aside. (Picture 2)



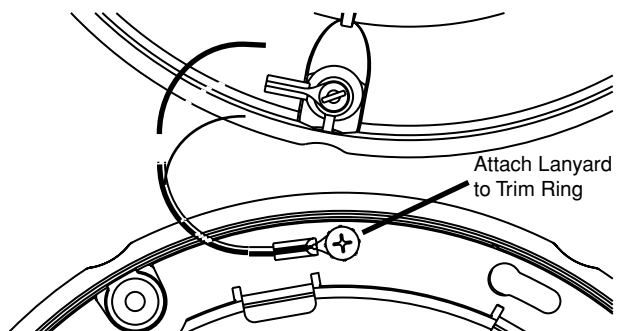
Picture 2

3. Open the dome assembly box. Note there is a protection film on the dome. DO NOT REMOVE the film until the product is fully assembled and installed. This film protects the dome from scratches during installation. (Picture 3)



Picture 3

4. There is a safety lanyard that is attached to the inside of the housing assembly. Remove the phillips head screw on the trim ring assembly and then attach the lanyard to the trim ring with the phillips head screw.
5. The safety lanyard is now attached to the housing (Picture 5).



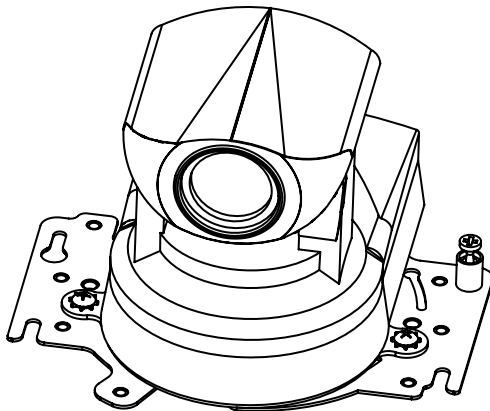
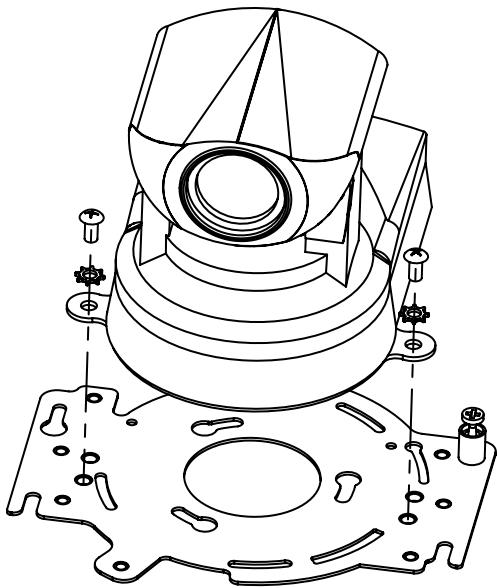
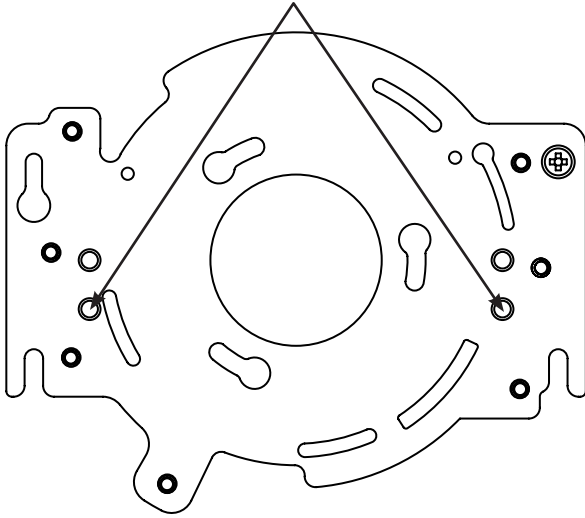
Picture 5

Listed on the following pages are the specific instructions for each of the individual network cameras. See specific instruction for the model that matches the unit you have.

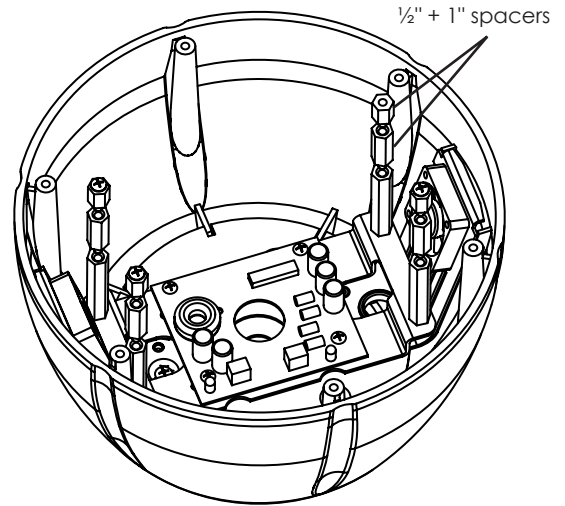
Installing the Axis 213 Camera

1. Install the camera onto the quick release bracket using (2) 10-32 x 3/8" screws and star washers provided in the packet.

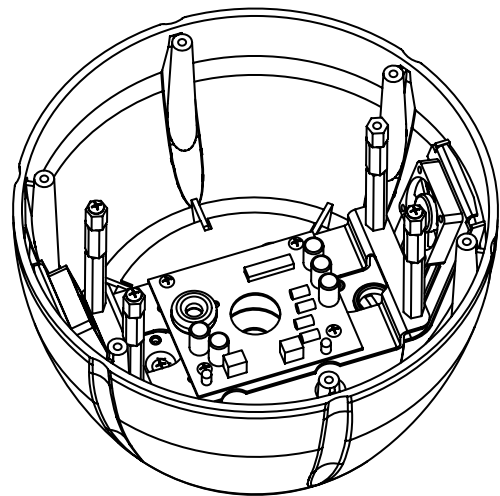
Attach cameras using these (2) holes



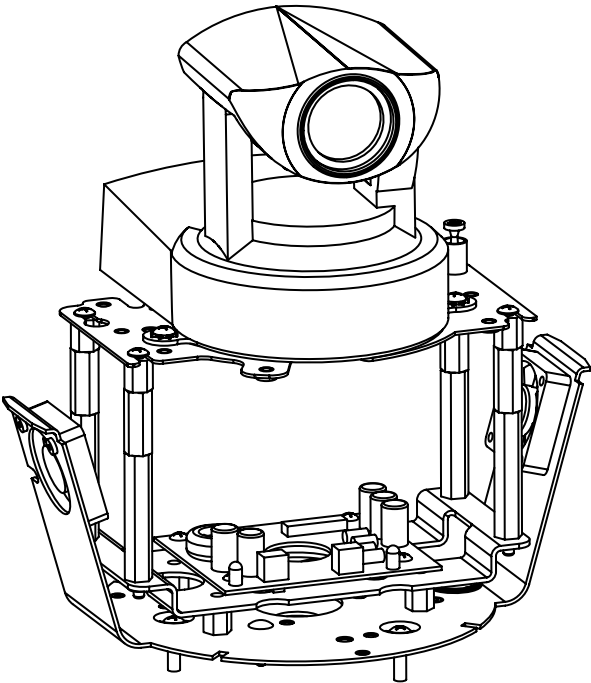
2. In the kit there are (8) aluminum spacers - (4) 1" and (4) 1/2". Thread (2) spacers - (1) 1" and (1) 1/2" - on top of each of the (4) 2" spacers that are already located on the base bracket inside the housing.



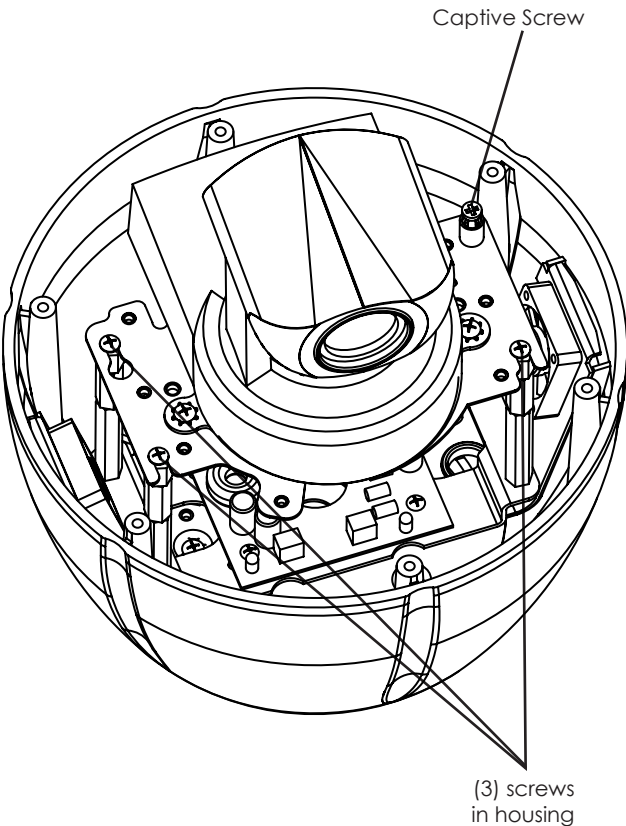
3. Then start (3) 8-32x3/8" phillips head screws onto the 3 1/2 inch spacers inside the housing. Be sure to place the screws so that they line up with the (3) open slots on the quick release bracket.



Installing Axis 213 Camera (cont.)



4. Mount the camera assembly in the housing, sliding the (3) open screw slots over the (3) screws in the housing. Slide the bracket forward then tighten the captive screw on the bracket.



CAMERA POWER

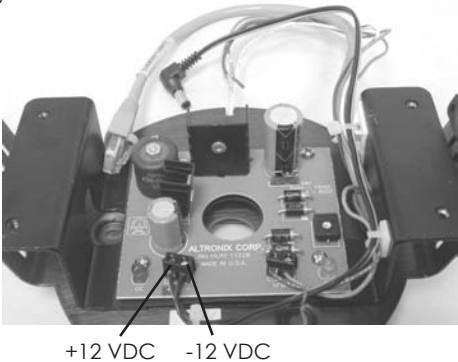
Connect the power plug and the ethernet cable to the back of the camera.



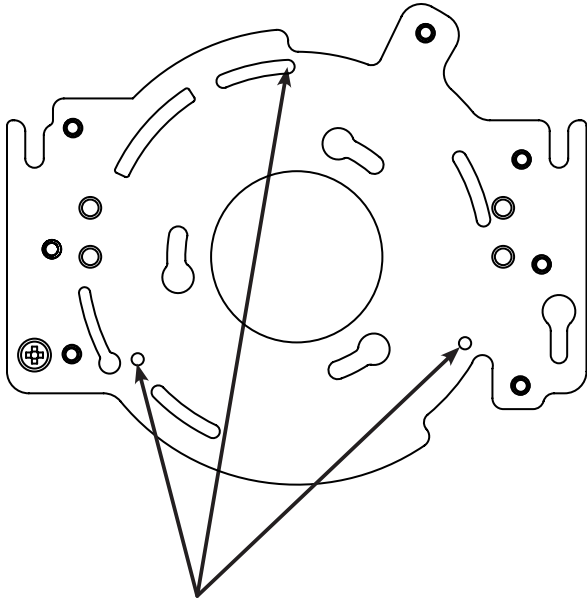
CONTROL RJ45 Ethernet Connector

ALARMS		
1	Alarm 1	Blue
2	Alarm 2	Violet
3	Alarm 3	Gray
4	Common	White

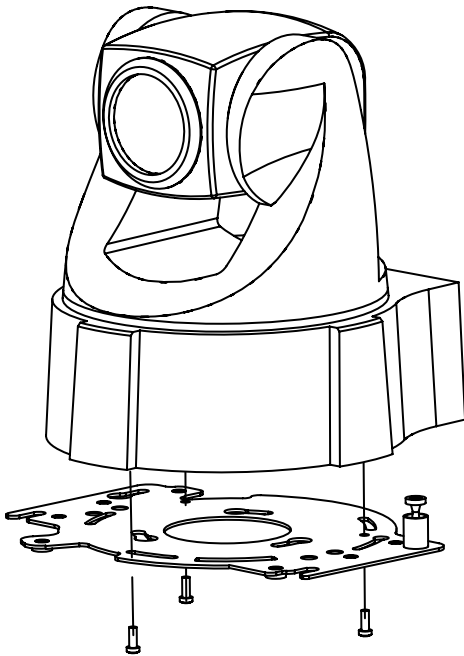
Power Connection - Reference Only



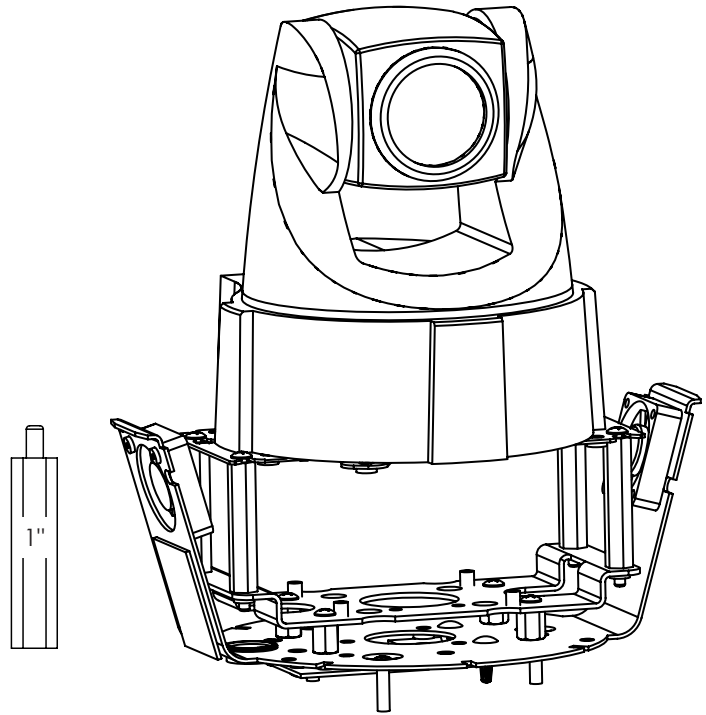
Installing Axis 214 Camera



Attach cameras using these (3) holes



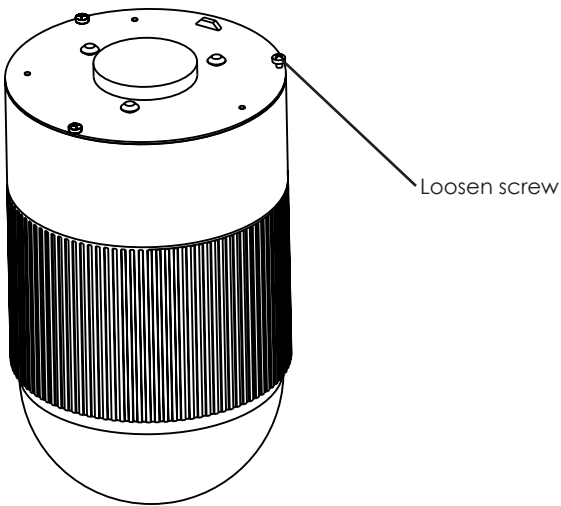
1. Install the AXIS 214 camera to the 2685 mounting plate using the (3) 3mm x 12mm bolt and lock washers provided.
2. The AXIS 214 camera requires 1" of spacing for optimal position within the housing. Use the 4 (1") spacers provided in the packet.



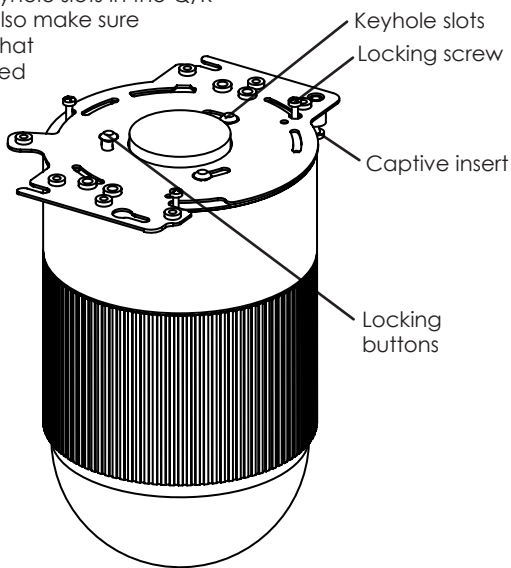
3. Place (3) 8 x 32 x $\frac{3}{8}$ Phillips head screws on the top of the spacer as shown above. Be sure to place the screws so that they line up with the open slots on the mounting plate.
4. Slide the mounting plate with camera into position on top of spacers. Secure 3 screws and captive fastener.

Installing Axis 231D/232D Camera

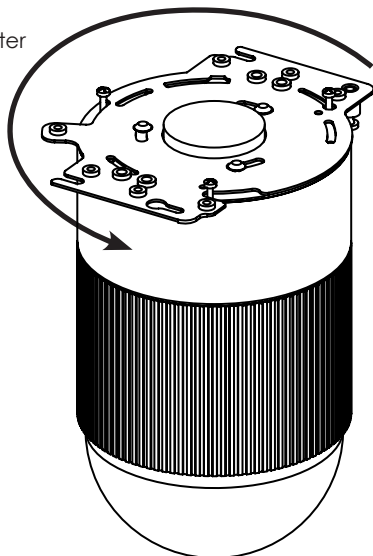
1. Install the camera onto the quick release bracket. Loosen one of the screws on the bottom of the camera, see diagram below.



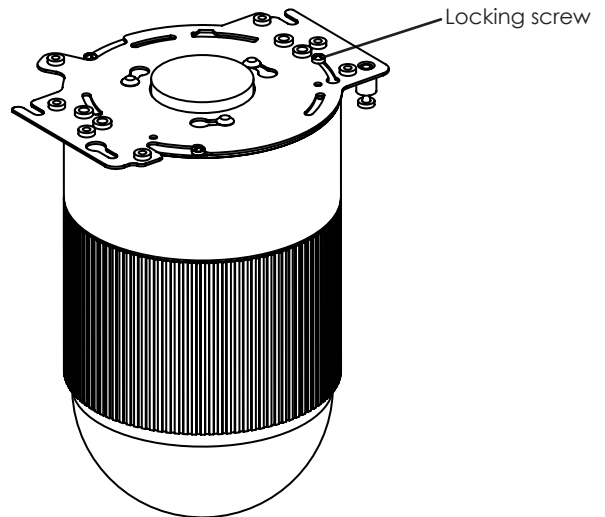
2. Place quick release bracket onto the bottom of the camera, making sure that the (3) locking buttons line up with the keyhole slots in the Q/R bracket. Also make sure the screw that you loosened up in the previous step lines up with the slot located next to the captive insert.



3. Turn the camera counter clockwise.

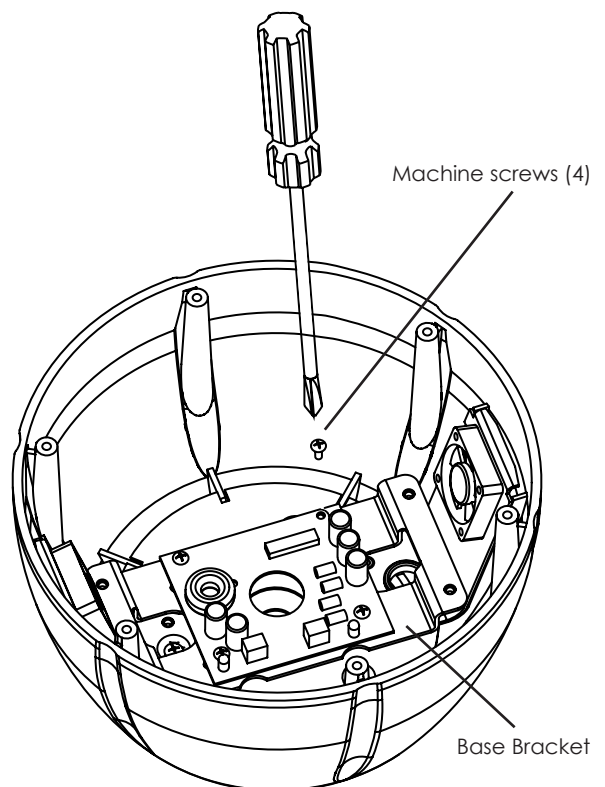


4. When the locking buttons hit the end of the keyhole slots. Tighten the locking screw. Then put the camera assembly aside.



5. Since the 231D/232D camera operates on 24vac, the power board that is located inside the housing is not needed. The remove the power board, start by loosening the screws on the terminal block and disconnect the orange and red wires.

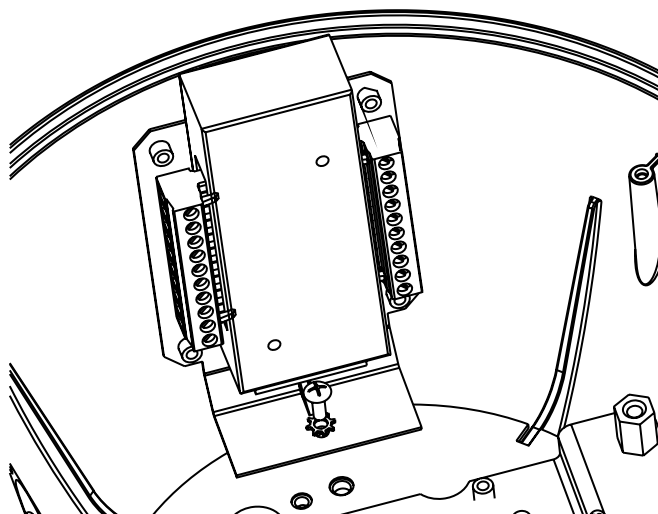
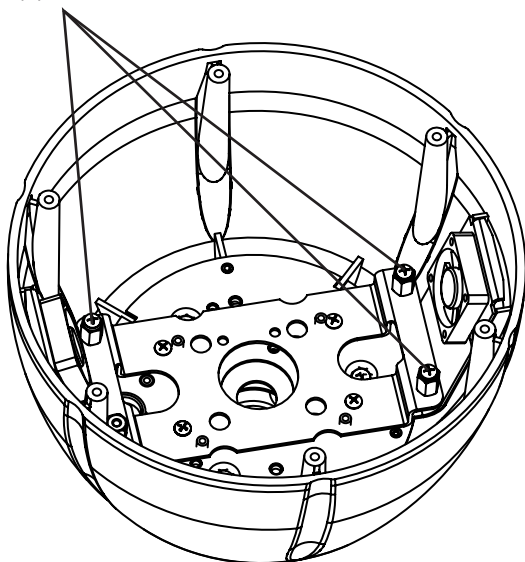
6. With a Phillips head screwdriver remove the (4) machine screws holding the power board to the base bracket.



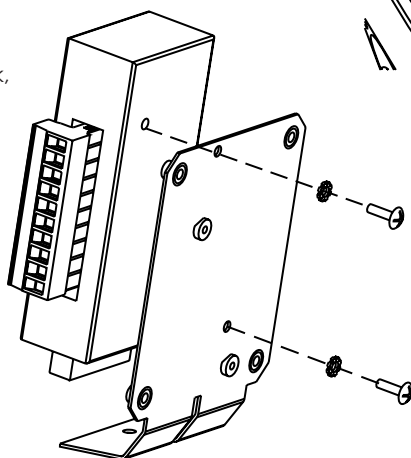
Installing Axis 231D/232D Camera (cont.)

7. Then start (3) 8-32x3/8" phillips head screws onto the (3) 1/2" spacers inside the housing. Be sure to place the screws so that they line up with the (3) open slots on the quick release bracket, the screws on the bottom of the camera, see diagram below.

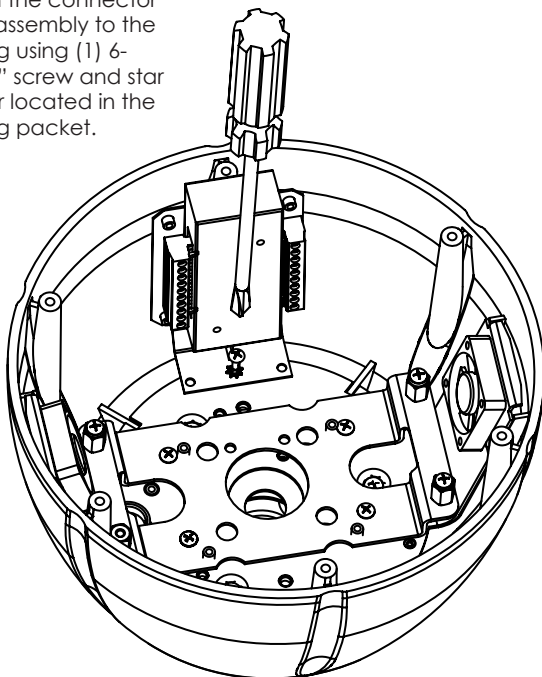
(3) 8-32 x 3/8" screws



8. Locate the connector block, which is included with the camera. Then locate the connector block bracket, which is included with the housing. Attach the block to the bracket as shown in the following diagram. Use the M3 screws and washers that are located in the housing packet.



9. Attach the connector block assembly to the housing using (1) 6-32x3/8" screw and star washer located in the housing packet.



10. Make wiring connections to connector block assembly per camera instructions.

Wiring Connections

POWER

1	Camera Power (24VAC)	Red
2	Camera Power (24VAC)	Orange

CONTROL
RJ45 Ethernet Connector

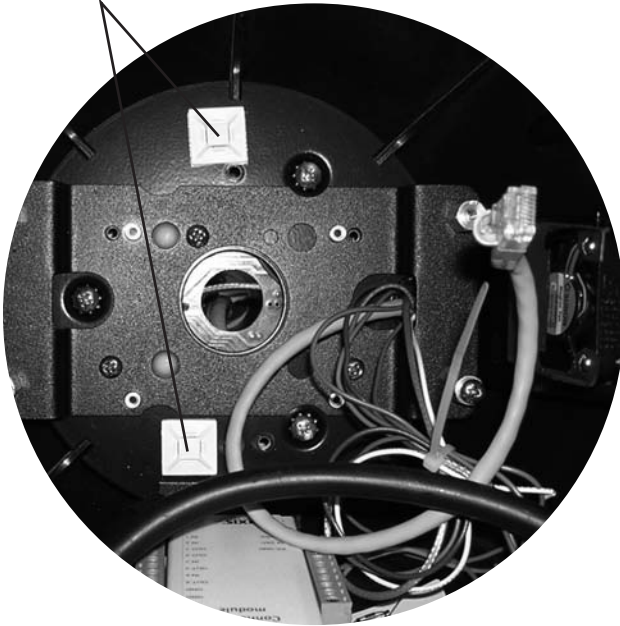
ALARMS

1	Alarm 1	Blue
2	Alarm 2	Violet
3	Alarm 3	Gray
4	Common	White

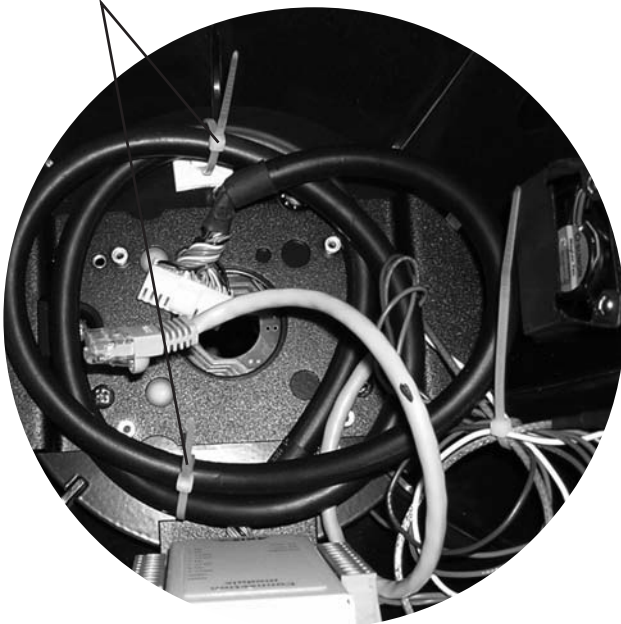
Installing Axis 231D/232D Camera (cont.)

11. To manage the input cable running from the connector block to the camera use the (2) cable tie mounts and cable ties that are located in the housing packet.

Cable Tie Mounts

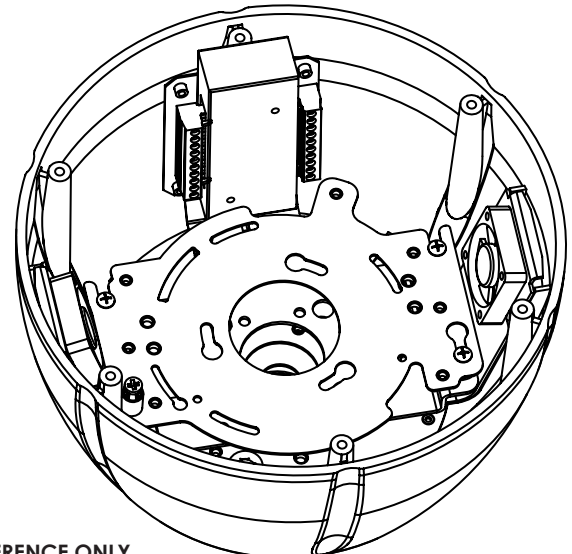
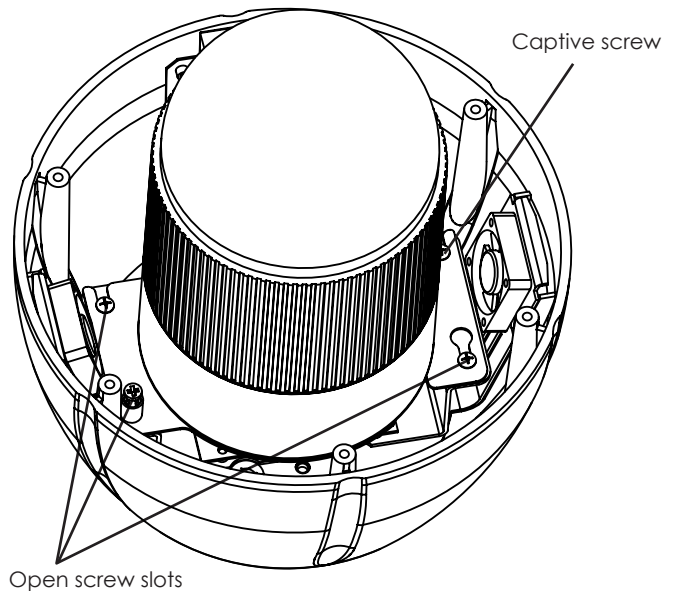
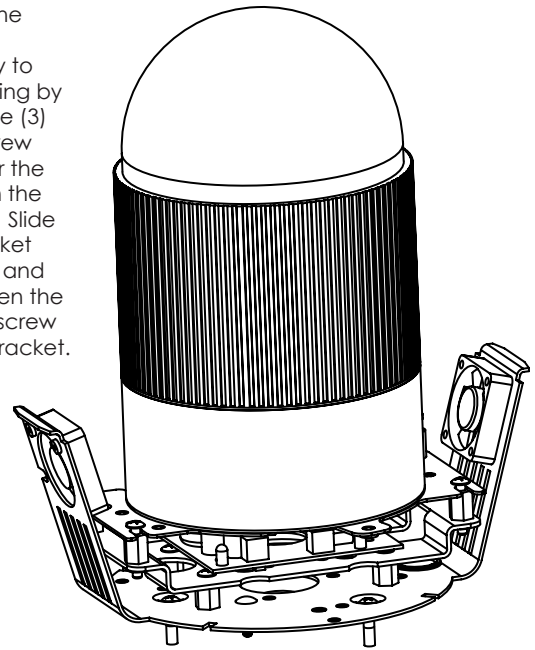


Cable Ties



12. Now grab the camera assembly and connector the RJ45 cable and the input cable to the camera.

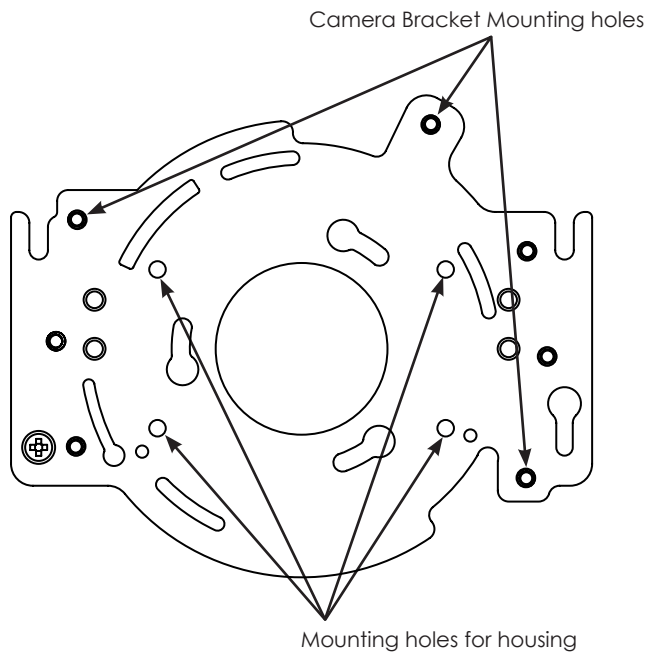
13. Attach the camera assembly to the housing by sliding the (3) open screw slots over the screws in the housing. Slide the bracket forward, and then tighten the captive screw on the bracket.



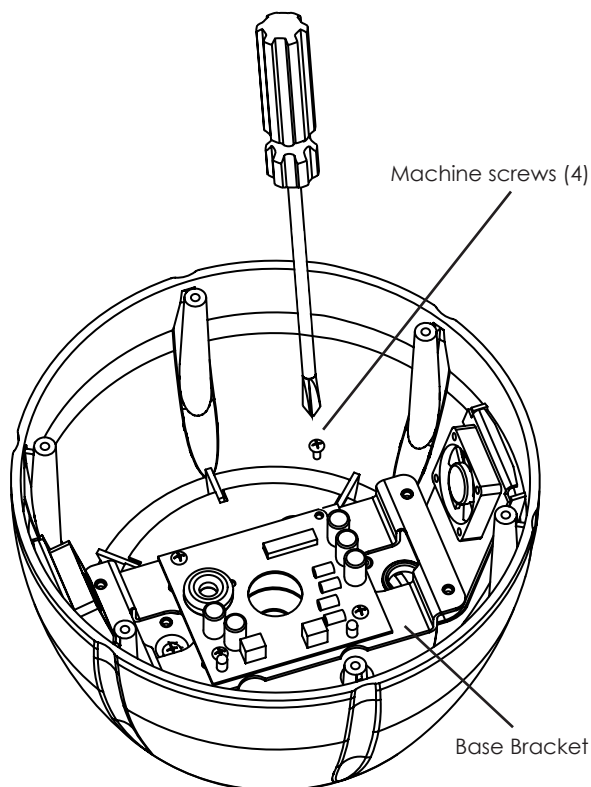
FOR REFERENCE ONLY

Installing Axis 233 Camera

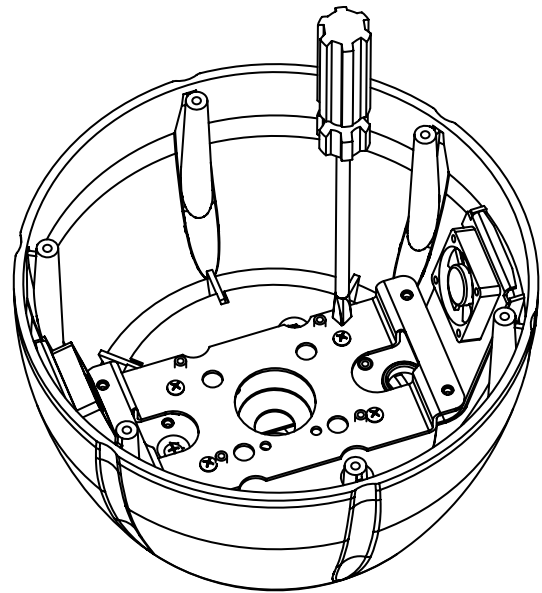
1. Note the position of the mounting holes on the camera bracket (see diagram below).



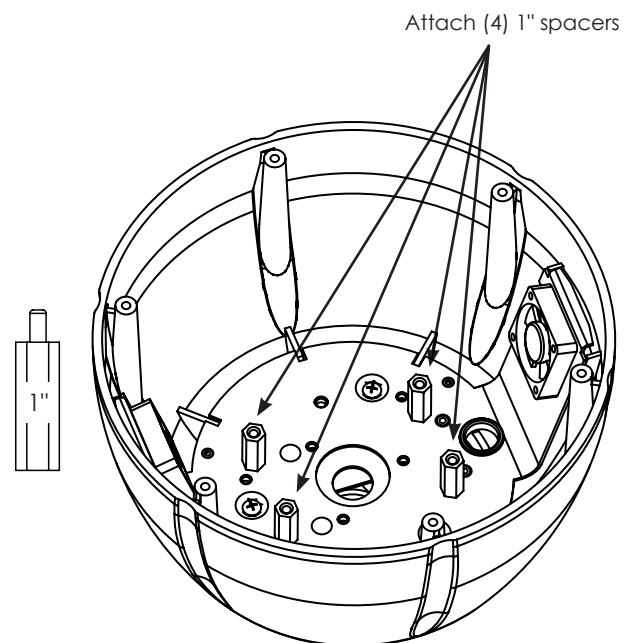
2. Since the 233 camera operates on 24vac, the power board that is located inside the housing is not needed. To remove the power board, start by loosening the screws on the terminal block and disconnect the orange and red wires.
3. With a Phillips head screwdriver remove the (4) machine screws holding the power board to the base bracket. Remove the power board.



4. Now remove the Base Bracket.

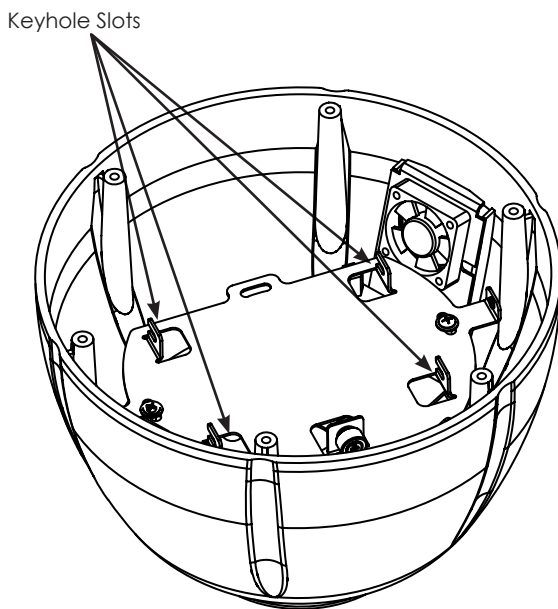
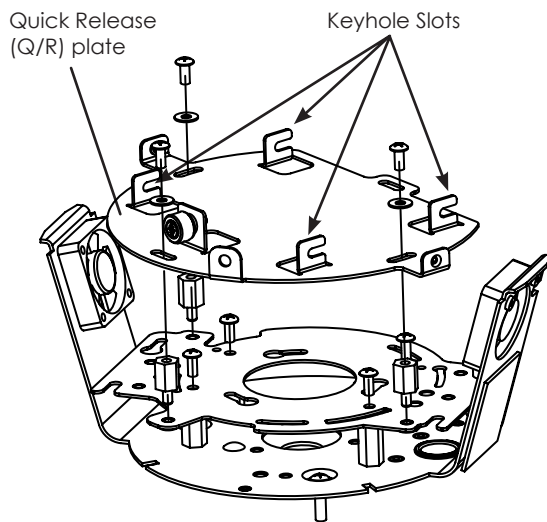


5. Now attach (4) 1" spacers (located in the packet that came with the housing) to the base bracket.



Installing Axis 233 Camera (cont.)

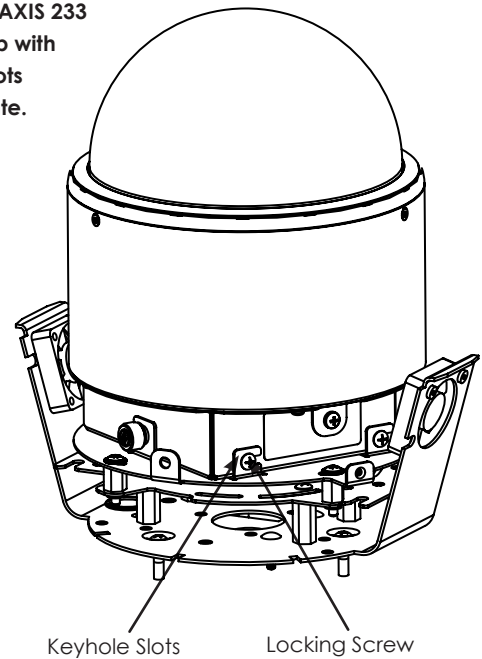
6. Mount the Axis 233 camera bracket and Q/R plate (Quick Release plate) as shown.



7. Place the Quick Release plate onto the bottom of the camera,

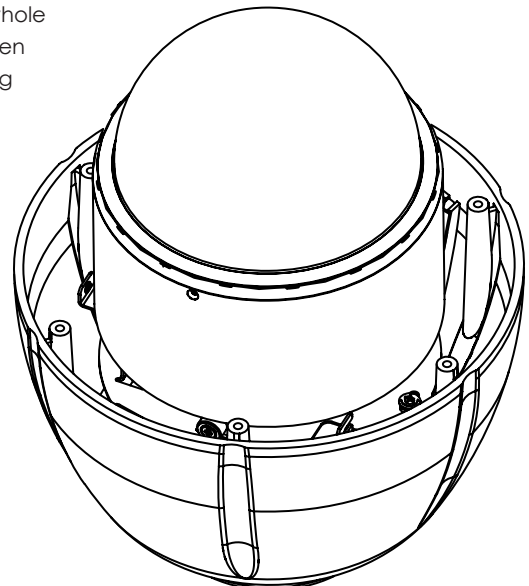
Make sure that the locking screws on the AXIS 233 camera line up with the keyhole slots on the Q/R plate.

Slide the camera into the keyhole slots by targeting the locking screw(s).



8. **Turn the camera counter-clockwise.**

9. When the locking buttons hit the end of the keyhole slots, tighten the locking screw.



INSTALLING THE HOUSING ASSEMBLY:



Be sure the bracket is properly and securely mounted to a supporting structure capable of rigidly holding the weight of the entire unit.



NOTE: This unit is designed for operation in an upright position. Installing the product upside down may cause damage to the internal equipment, and will void the warranty.

1. This unit includes a 1½" NPT housing for a standard 1½" NPT pipe. The housing can be used with other brackets designed with 1½" male pipe threads, such as the UNI-WMB1 wall mount brackets.

2. Attach the housing coupling (Figure 3).

NOTE: Pipe threads should be clean and rust free. Use the Teflon™ tape included with the housing on the threads.

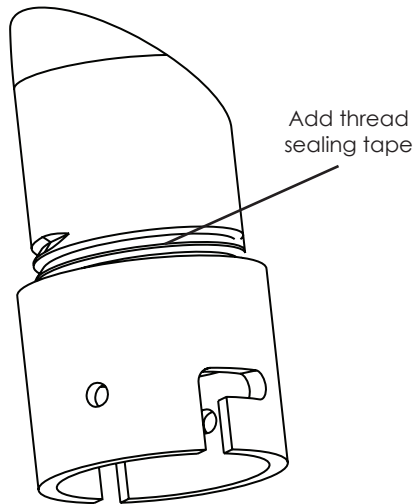


Figure 3

3. Mount the housing assembly to the mounting bracket and housing coupling. A safety cable is included with the housing to temporarily hold it while making wiring connections. Loop the safety cable over one of the set screws on the housing coupling and make the appropriate connections using the (2) screw-down connectors supplied.
2. Undo the safety cable and twist the housing onto the housing coupling. Secure all (3) setscrews provided on the housing coupling (Figure 4).

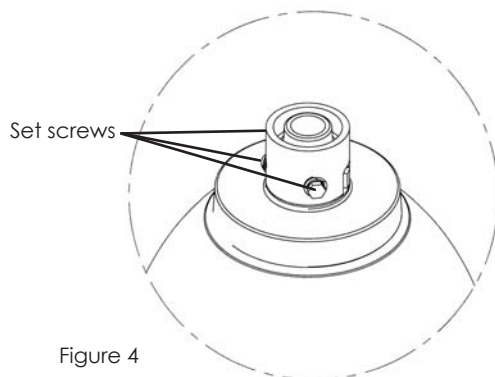
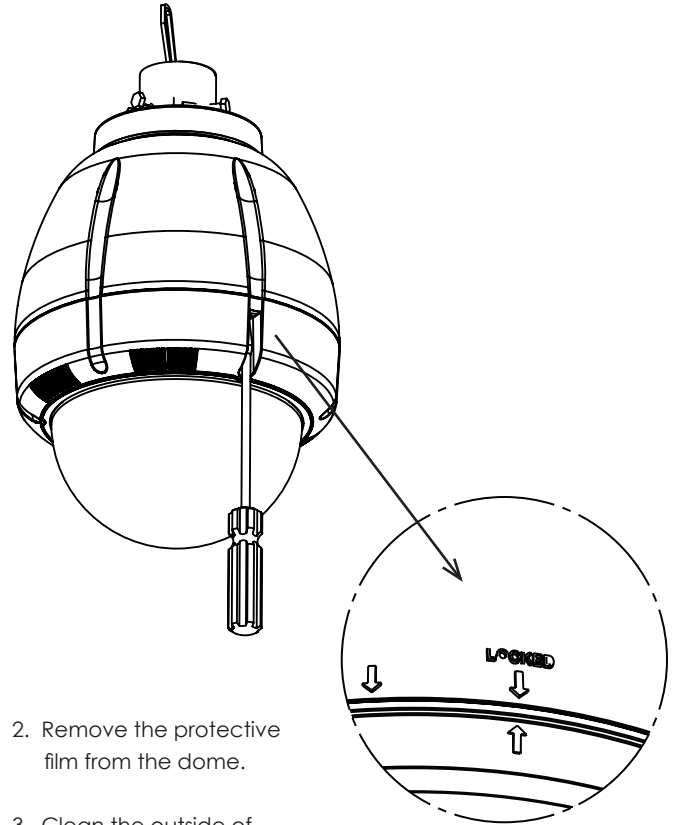


Figure 4

REMOVING AND ATTACHING THE DOME ASSEMBLY:

1. Attach the dome assembly to the housing top by lining up the three pins with the three keyhole slots. Insert the dome assembly into the housing and then rotate the dome assembly clockwise. Then tighten the (3) screws on the front of the dome assembly.



2. Remove the protective film from the dome.
3. Clean the outside of the dome.

Chart A Wiring Color Code Power and Control Inputs (Outside of housing)

POWER		
1	Camera Power (24 VAC)	Red
2	Camera Power (24 VAC)	Orange
3	Accessory Power (24 VAC)	Yellow
4	Accessory Power (24 VAC)	Green

Separate Power Supplies for Camera and Accessory Power

Camera: 25 watts (VA), 24 VAC, Class 2 Only

Accessory: 27 watts (VA), 24 VAC, Class 2 Only

CONTROL
RJ45 Ethernet Connector

ALARMS		
1	Alarm 1	Blue
2	Alarm 2	Violet
3	Alarm 3	Gray
4	Common	White

POWER WIRING

Two plug-in wall transformers are included with the housing. Use one to provide power for the heater and blower in the housing, and the other for the camera. Determine where the transformers will be located, then run two sets of power wires into the wall mount bracket (**Four total power wires**). Use the chart below to determine the correct gauge of wire needed based on the length of the run and the 30vA power line.

24 VAC Wiring Distances

The following are the recommended maximum distances for 24VAC with a 10% voltage drop. (10% is generally the maximum allowable voltage drop for AC-powered devices.)

Total vA consumed	Wire Gauge						
	22	20	18	16	14	12	10
30	65	90	130	225	350	525	830
50	35	56	90	143	228	362	576

Maximum distance from transformer to housing

The unit is setup with (2) individual power inputs.

- 1. Accessory Power (yellow and green wire)
- 2. Camera Power (red and orange wire)

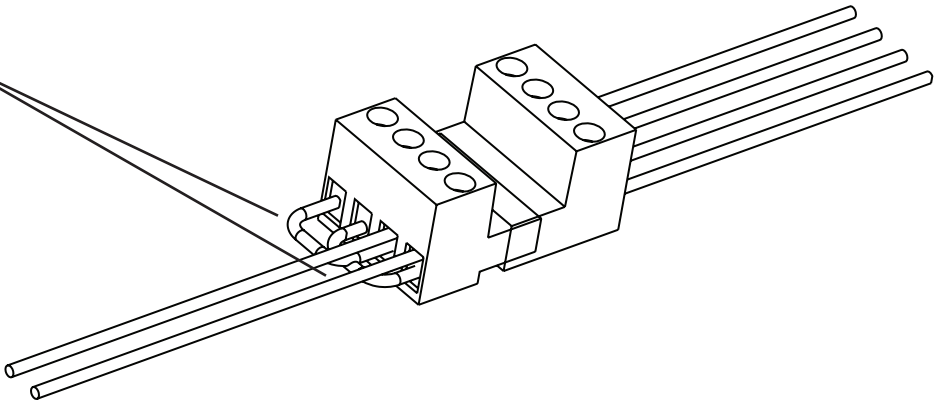
If you wish to provide a single power transformer it is recommended that:

- 1. Be certain that you know the total power consumption of the housing Heaters (25 watts) + Blowers (2 watts) + camera/pan-tilt (not supplied)

213	=	24 watts @ 13Vdc
214	=	14 watts @ 12Vdc
231D/232D	=	25 watts @ 24Vdc

- 2. Check the supplied wiring chart to be sure that you have the proper gauge wire for the distance that you intend to run your power wires.
- 3. Bring power to the 3 and 4 position of the power connector (yellow and green wire)
- 4. Two jumpers are provided in the housing packet. Jumper from the 1st position to the 3rd position and from the 2nd position to the 4th position of the terminal block. Be careful not to short between the yellow and green wires.

Add 2 jumpers for single power input

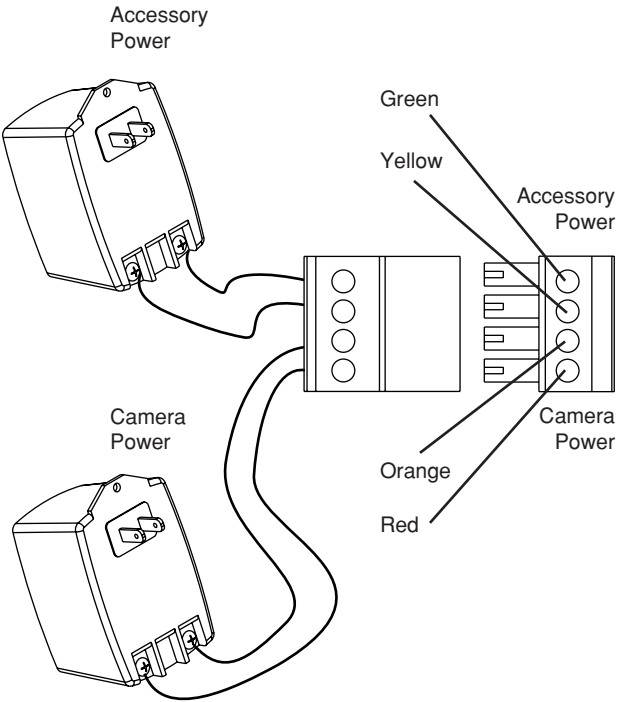


CONNECTING THE TRANSFORMERS (Figure 2)

Determine which transformer will be attached to the camera. Attach the red and orange wires to the terminal points on the transformer .

For the transformer which will be used for the heater and blower, attach the yellow and green wires to the terminal points.

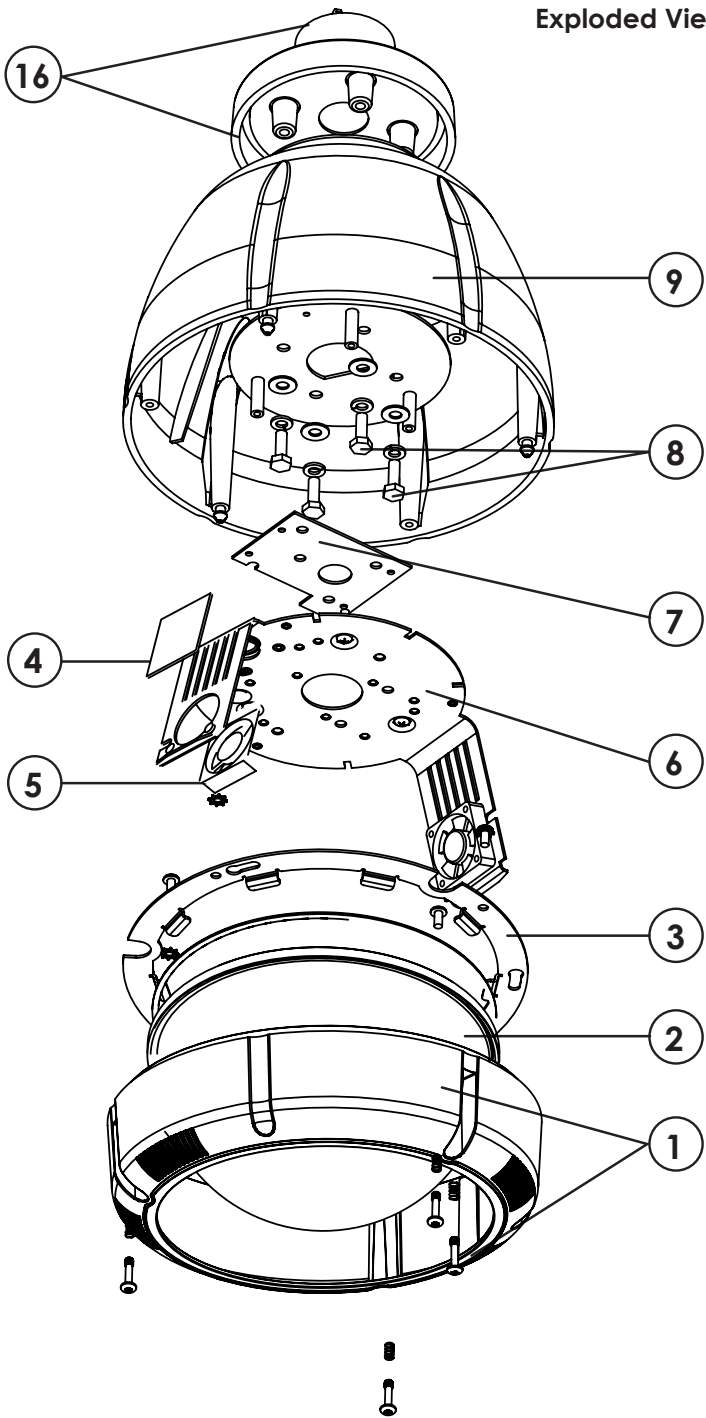
NOTE: You may attach wires to either terminal, however MAKE SURE THAT THE TRANSFORMERS ARE ATTACHED TO THE PROPER CONNECTION ON THE HOUSING.



One Power Supply for both Camera and Accessory Power
52 watts (VA), 24 VAC, Class 2 Only

NOTE: In this combination, run power to the camera connector, then run jumper wires (not provided) to the accessory side of the connector.

Exploded View for Replacement Parts



Replacement Parts List

Part Number		Description
1	RPFD7015	Lower Trim Ring
2	FD7T	Tinted Replacement Capsule
	FD7C	Clear Replacement Capsule
3	RPFD703	Dome Clamping Bracket
4	RPFD072	24 Vac Heater
5	RPFD080	(12 Vdc) Blower (Used In 24v Housings)
6	RPFD060	Camera Bracket
7	RPRH707	Connection Pcb
8	RPFD040	Housing Hardware
9	RPFD709	Housing Top
16	RPFD711	Pendant Mount Bracket